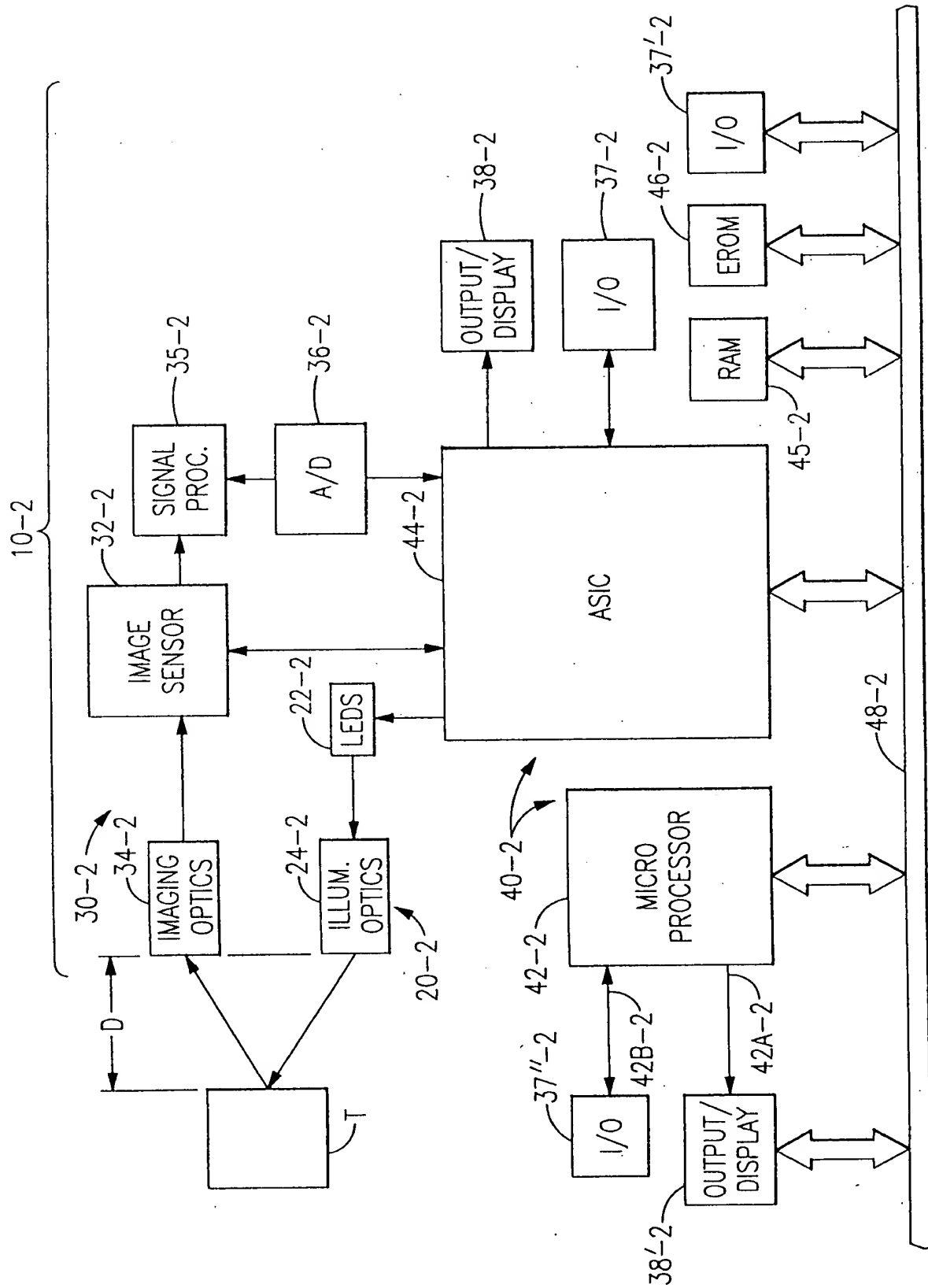
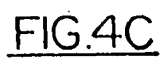
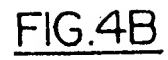
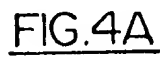


FIG.1







7. 3. 1950



FIG. 46

55-2-3

56-2-3

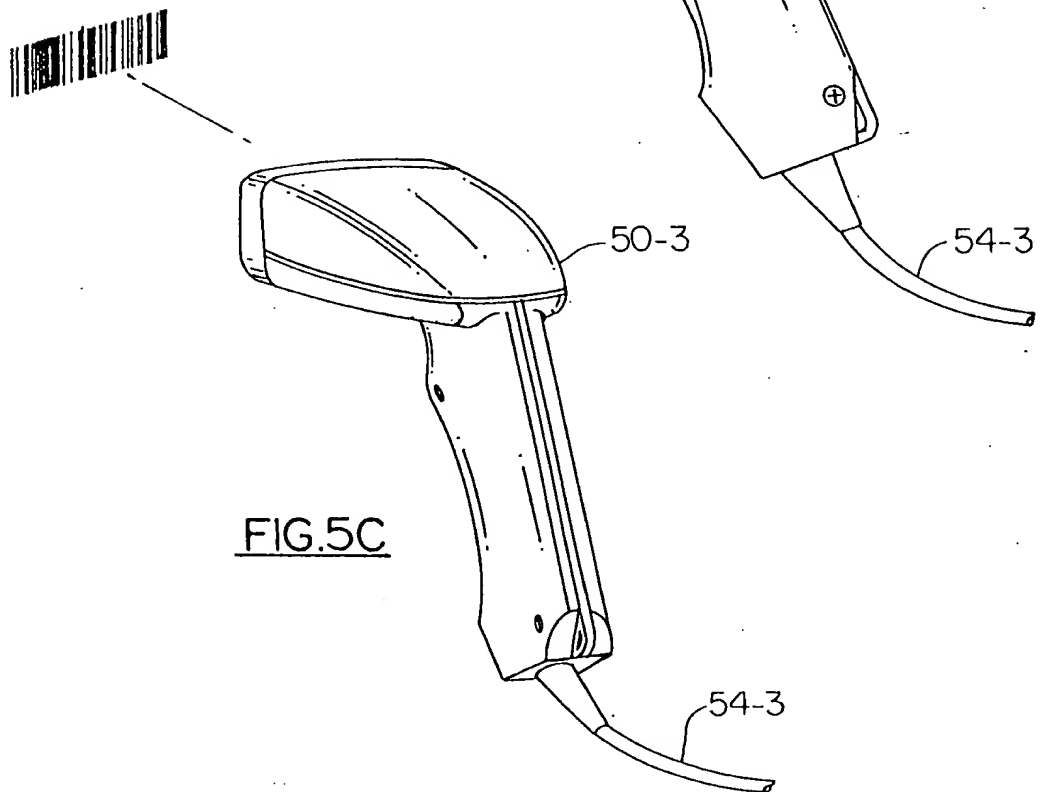
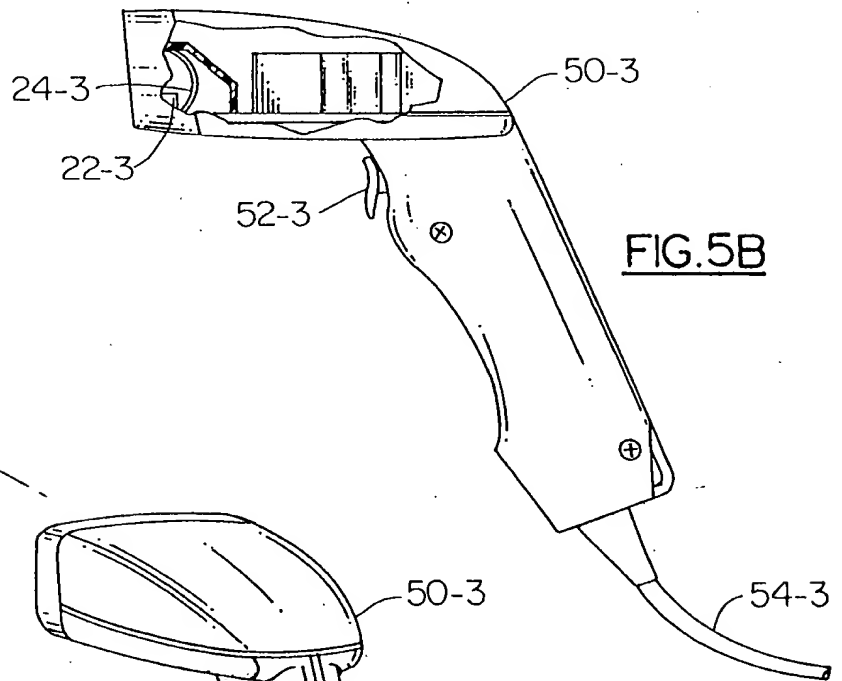
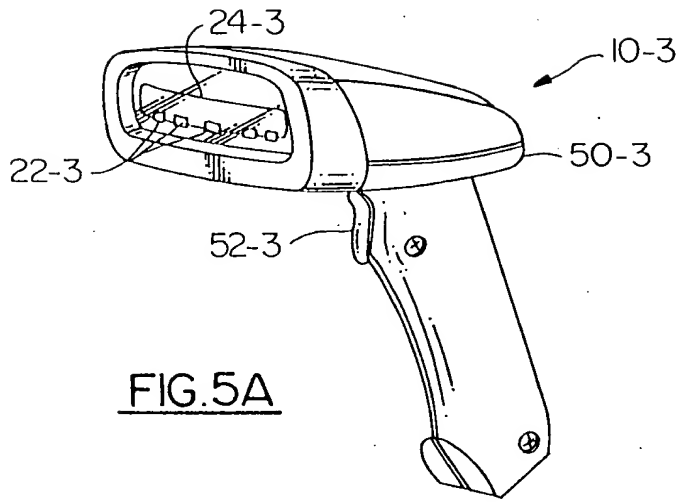
52-2-3

10-2-3

50-2-3

58

FIG. 4I



660200 26336600

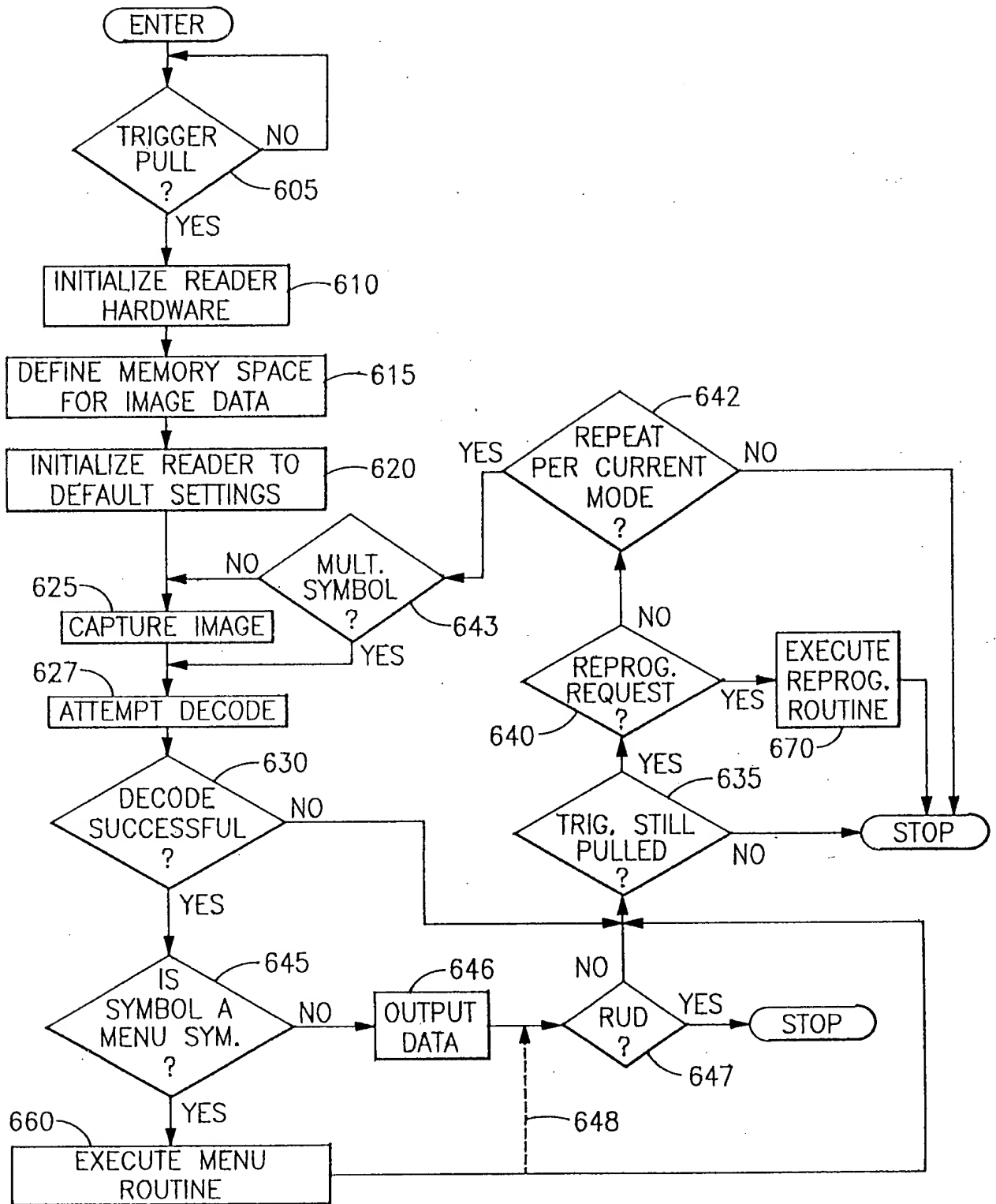


FIG. 6A



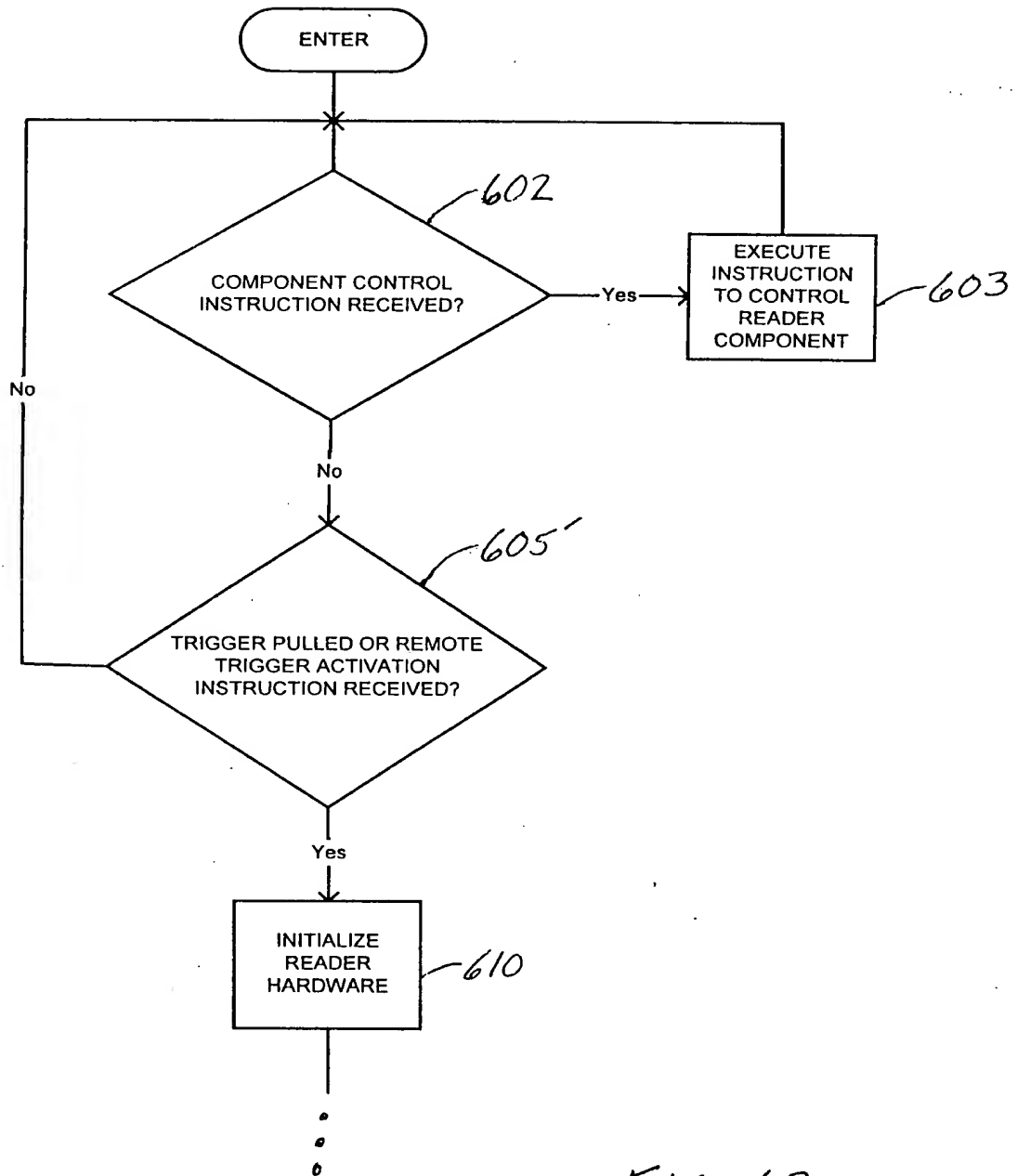


FIG. 6B



```

graph TD
    ENTER([ENTER]) --> 805[CONVERT DECODED MESSAGE TO HEX]
    805 --> 807{PRODUCT I.D. VERIFIED ?}
    807 -- NO --> EXIT([EXIT])
    807 -- YES --> 810{OP CODE OR NUMBER ?}
    810 -- NUMBER --> 815[COLLECT ALL DIGITS IN ACCUMULATOR]
    815 --> 820{OP CODE = 0 ?}
    820 -- NO --> 825[UPDATE PARAMETER TABLE  
SET FLASH FLAG]
    825 --> 850{FLASH FLAG SET ?}
    820 -- YES --> 830[EXECUTE INDICATED VECTOR PROC. ROUTINE]
    830 --> 850
    850 -- YES --> 855[COPY FLASH ROUTINE FROM EROM TO RAM AND JUMP TO RAM]
    855 --> 860[ERASE CURRENT PAR. TABLE FROM EROM]
    860 --> 865[COPY PAR. TABLE FROM RAM TO EROM]
    865 --> 807
    850 -- NO --> EXIT

```

**FIG.8**

FIG.8



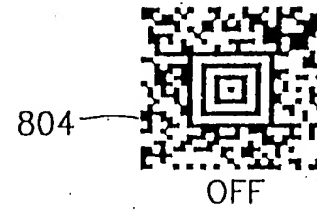
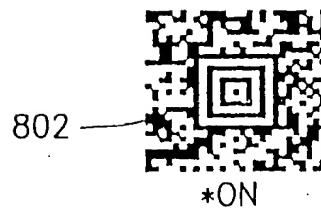
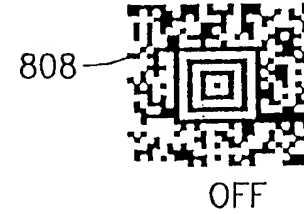
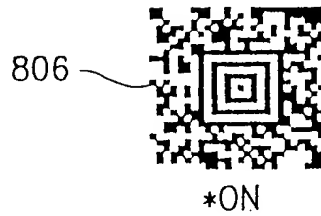



FIG. 8A

UPC A SELECTION



BAUD RATE SELECTION

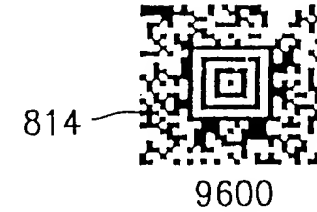
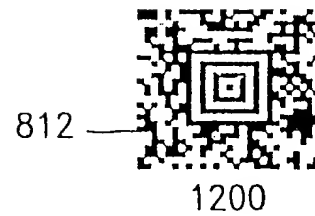
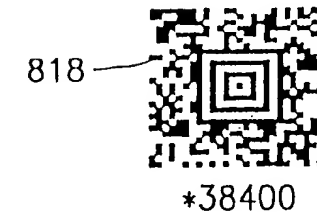
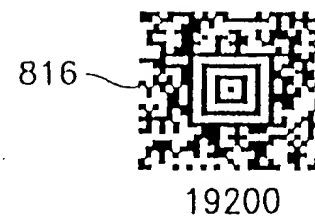


FIG. 8B

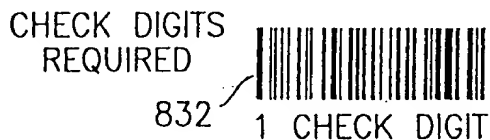
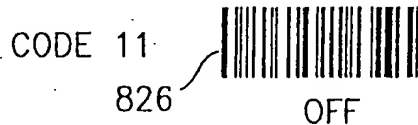
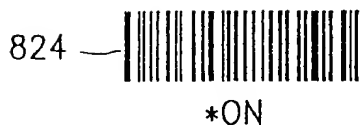


**FIG.8C**

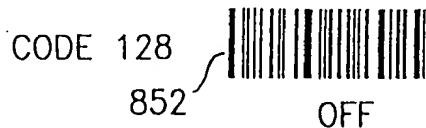
\*DEFAULT ALL CODE 11/CODE 128 SETTINGS\*



CODE 11 SELECTION



CODE 128 SELECTION




‡ A TWO-DIGIT NUMBER IS REQUIRED AFTER SCANNING THIS PROGRAMMING BAR CODE. PLEASE SCAN YOUR SELECTION ON THE PROGRAMMING CHART (INSIDE BACK COVER).


60000 203000

RS-232D PORT 2 (D OUTPUT)  
\*DEFAULT ALL RS-232 PORT 2 SETTINGS\*


858 — 


CTS CHECK SELECTION

862 —   
ENABLE


864 —   
\*DISABLE


BAUD RATE SELECTION

866 —   
300

868 —   
600

872 —   
1200

874 —   
2400

876 —   
4800

878 —   
\*9600

882 —   
19200


884 —   
38400

FIG.8D

REPROG. SYSTEM

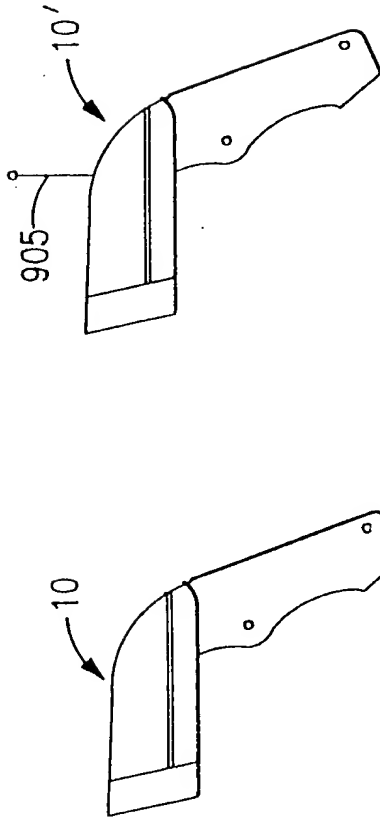
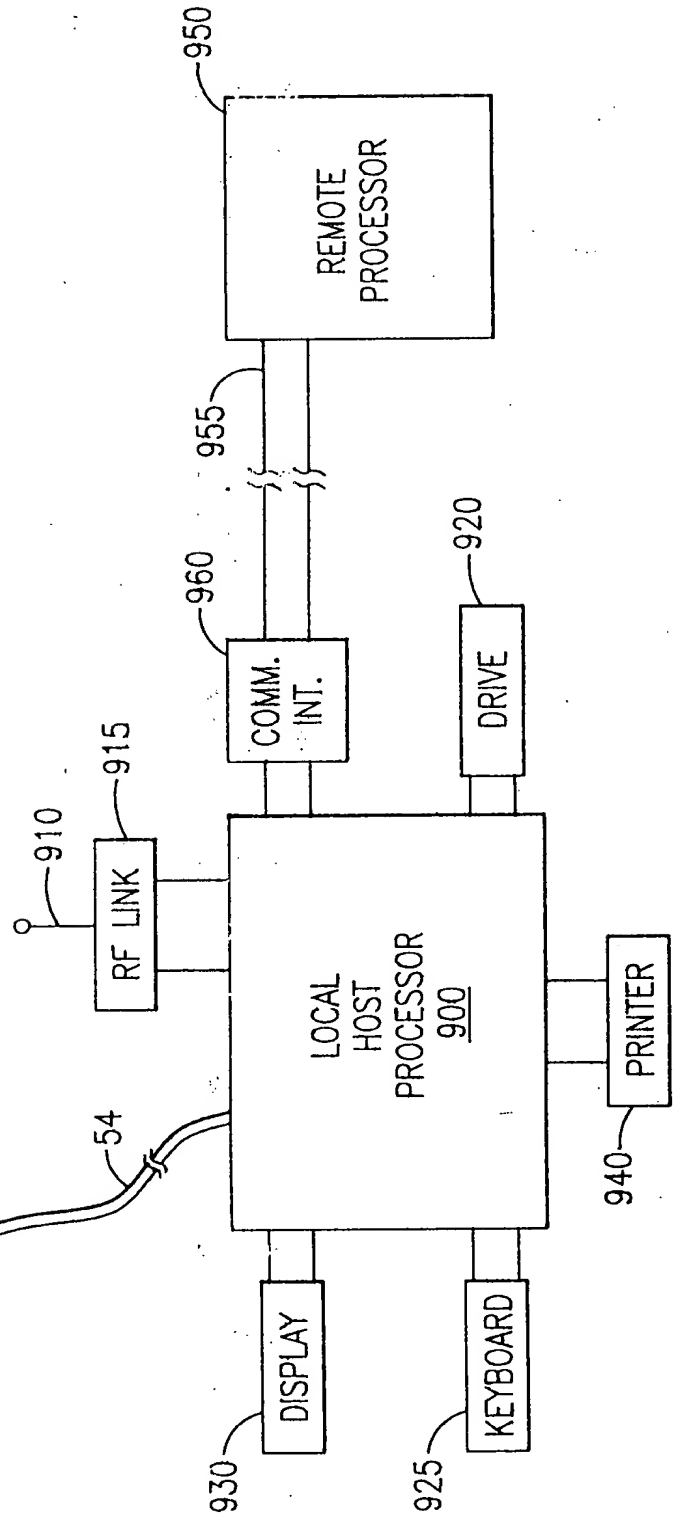


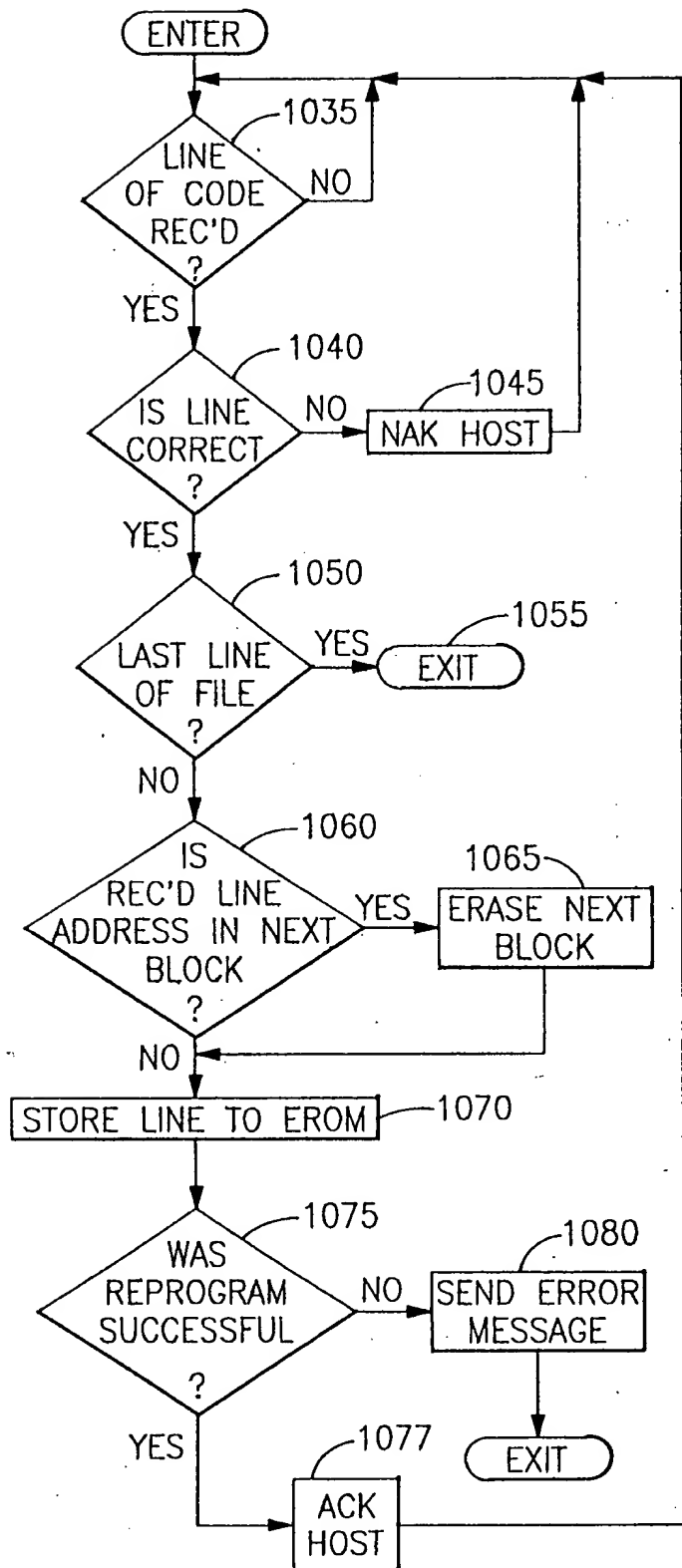
FIG. 9



```

graph TD
    ENTER([ENTER]) --> BBOOT{BBOOT ?}
    BBOOT -- NO --> 1005
    BBOOT -- YES --> 1007{LINE OF CODE REC'D ?}
    1007 -- NO --> 1005
    1007 -- YES --> 1010[STORE LINE IN RAM]
    1010 --> 1015[ACK HOST]
    1015 --> 1020{LAST LINE ?}
    1020 -- NO --> 1005
    1020 -- YES --> 1025[JUMP TO RAM AND EXECUTE PROGRAM IN RAM]
    1025 --> EXIT([EXIT])

```





660600 660600

1160

IF (MESSAGE TYPE == CODABAR)  
AND  
(PARAMETER TABLE, CODABAR == ON)  
THEN ATTEMPT TO  
DECODE MESSAGE

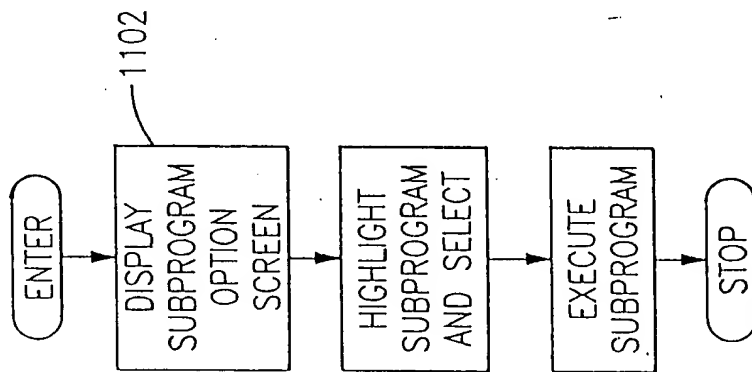
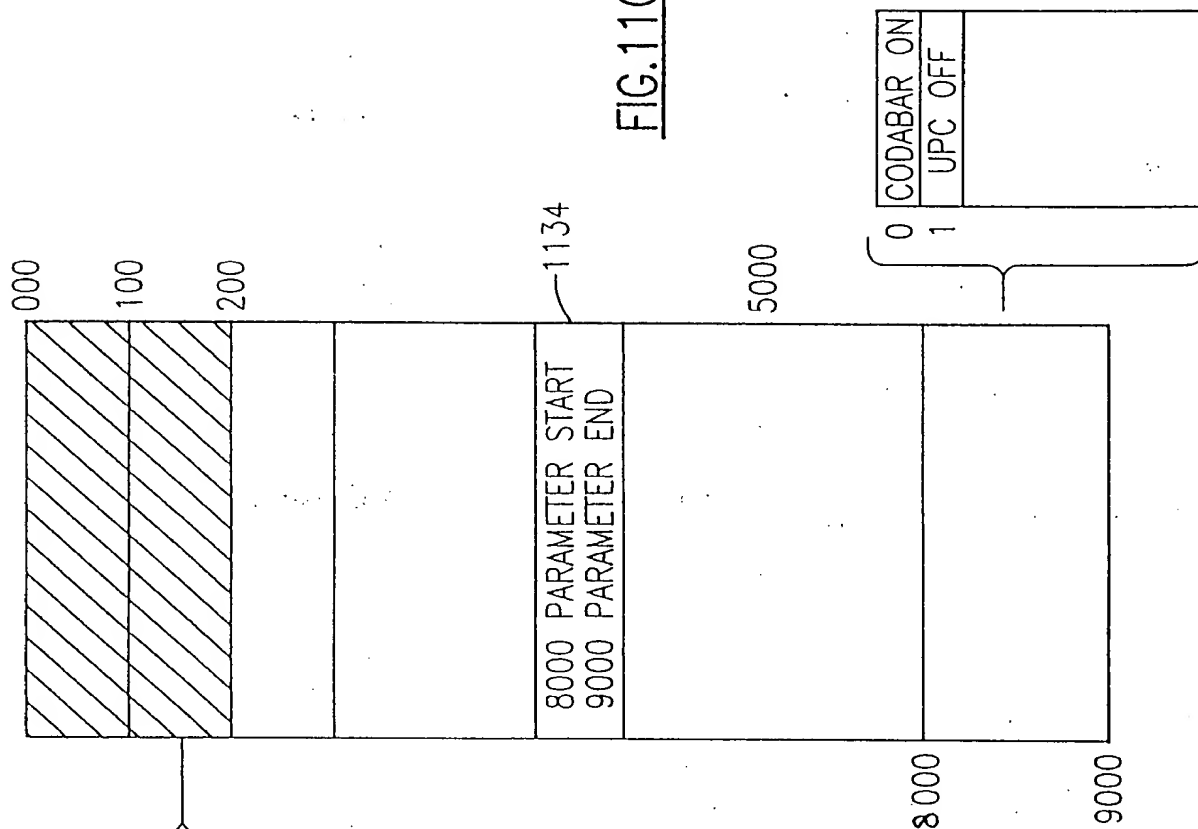


FIG.11A



6622 43360

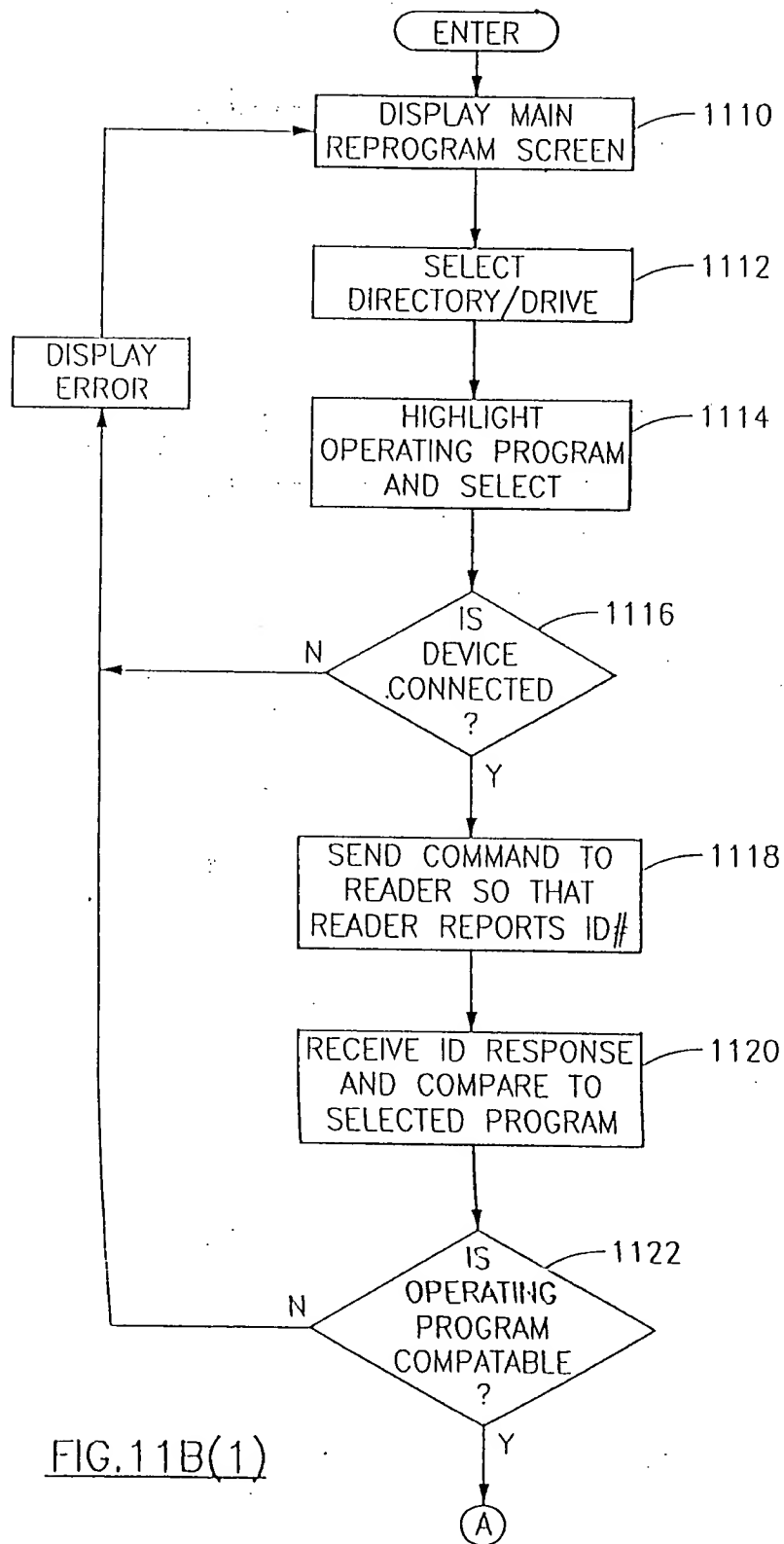


FIG. 11B(1)

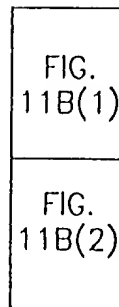


FIG. 11B

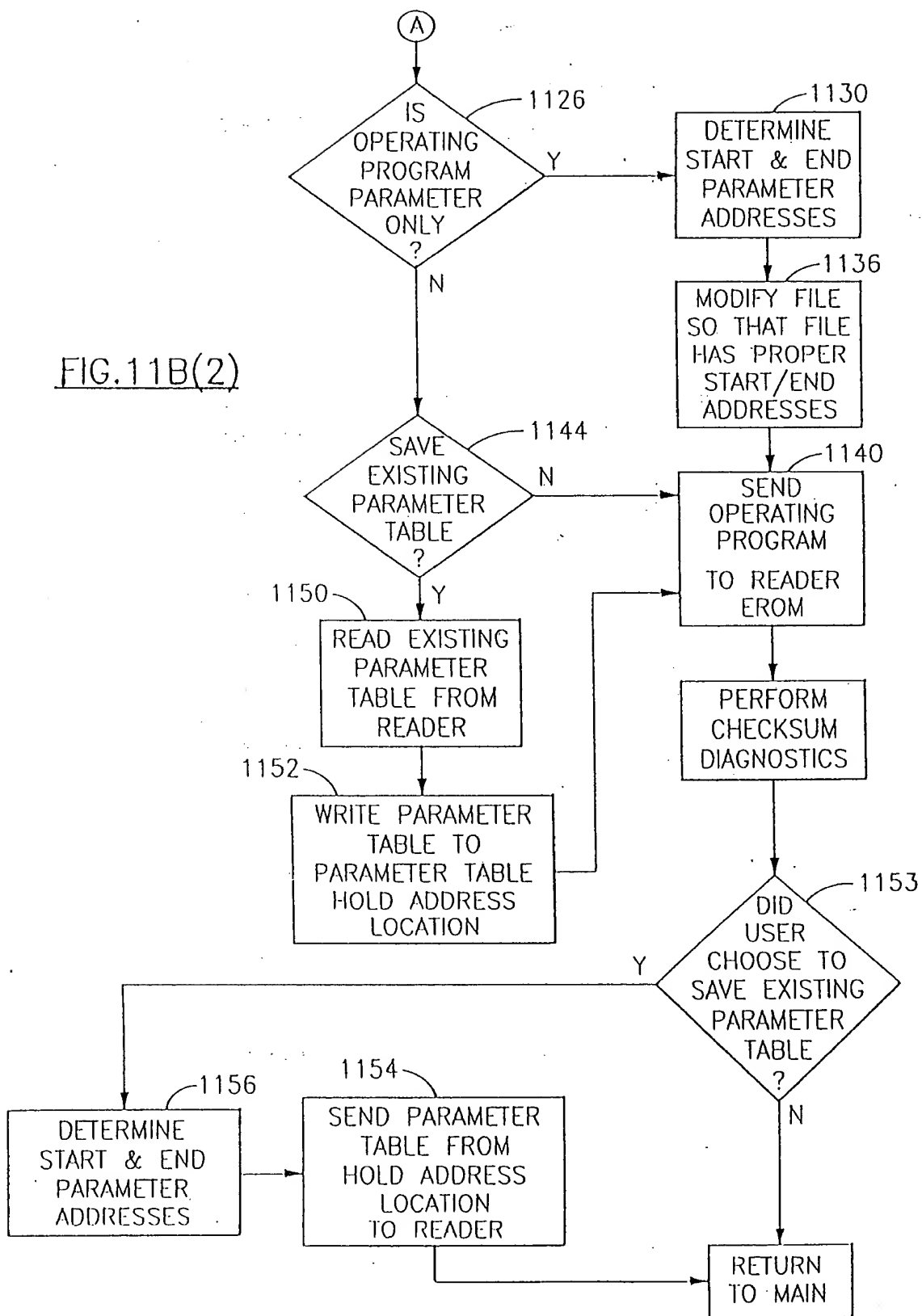


FIG. 11D(1)

FIG.  
11D(2)

FIG. 11D

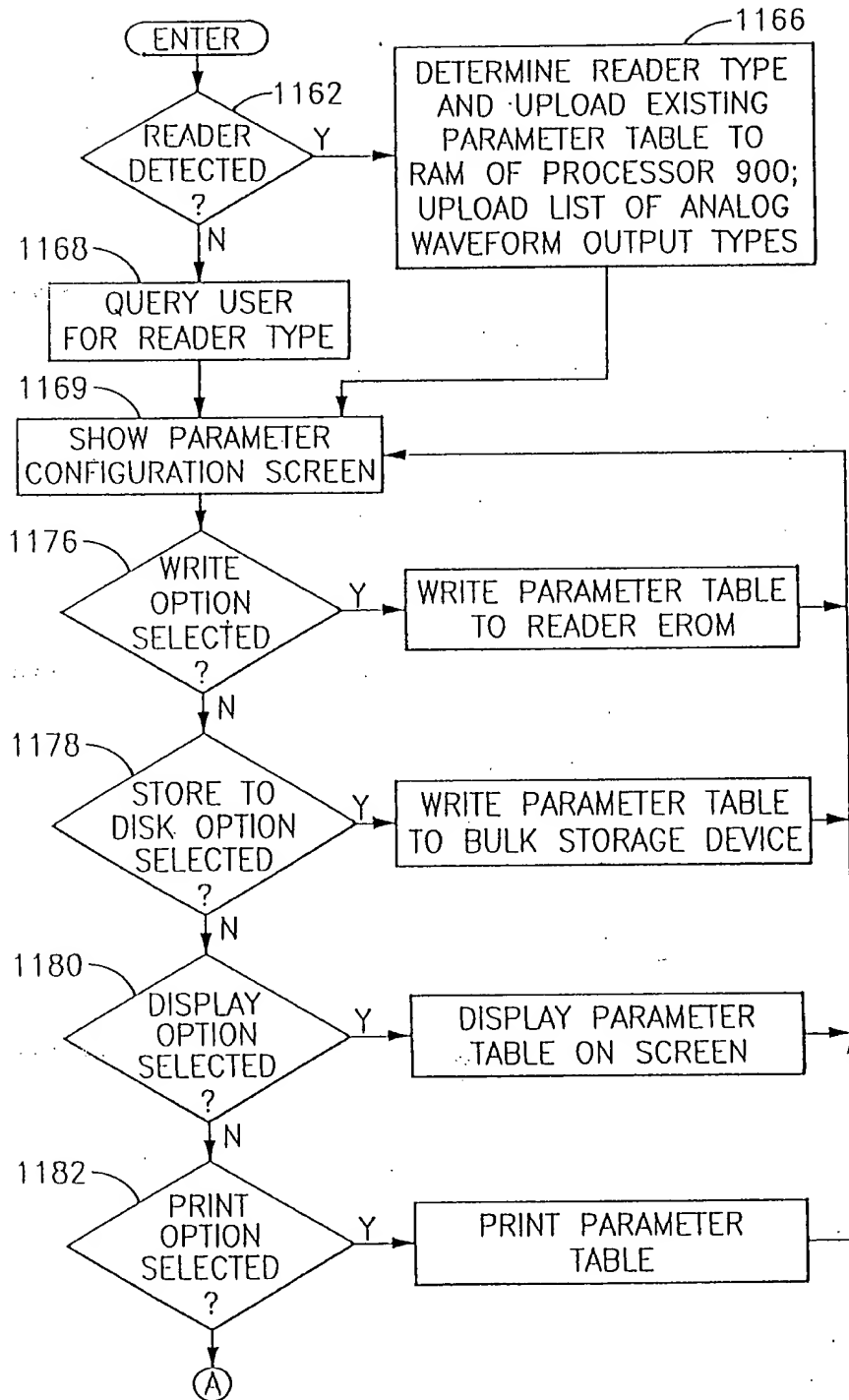


FIG. 11D(1)

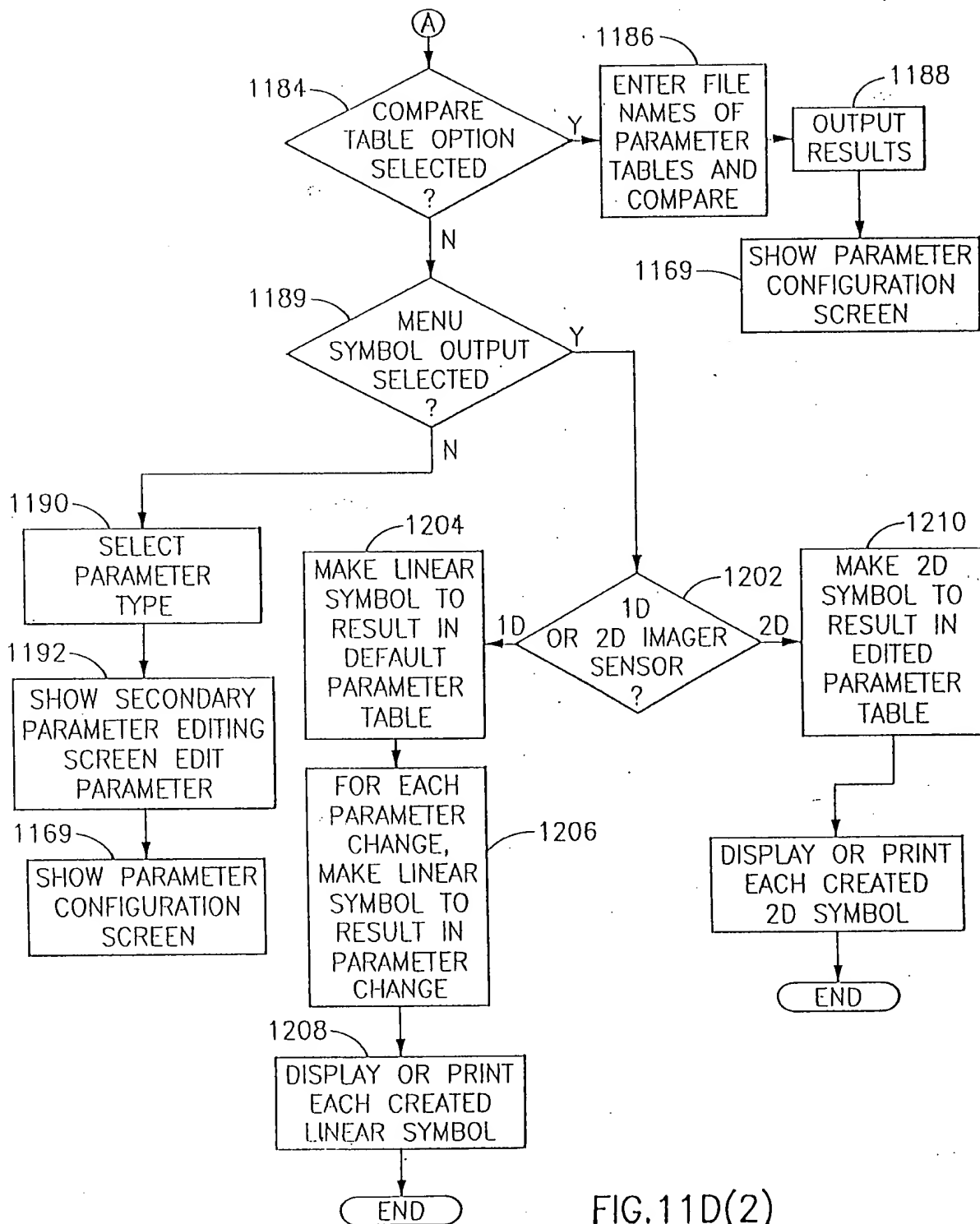


FIG. 11D(2)

1174

FIG. 11E

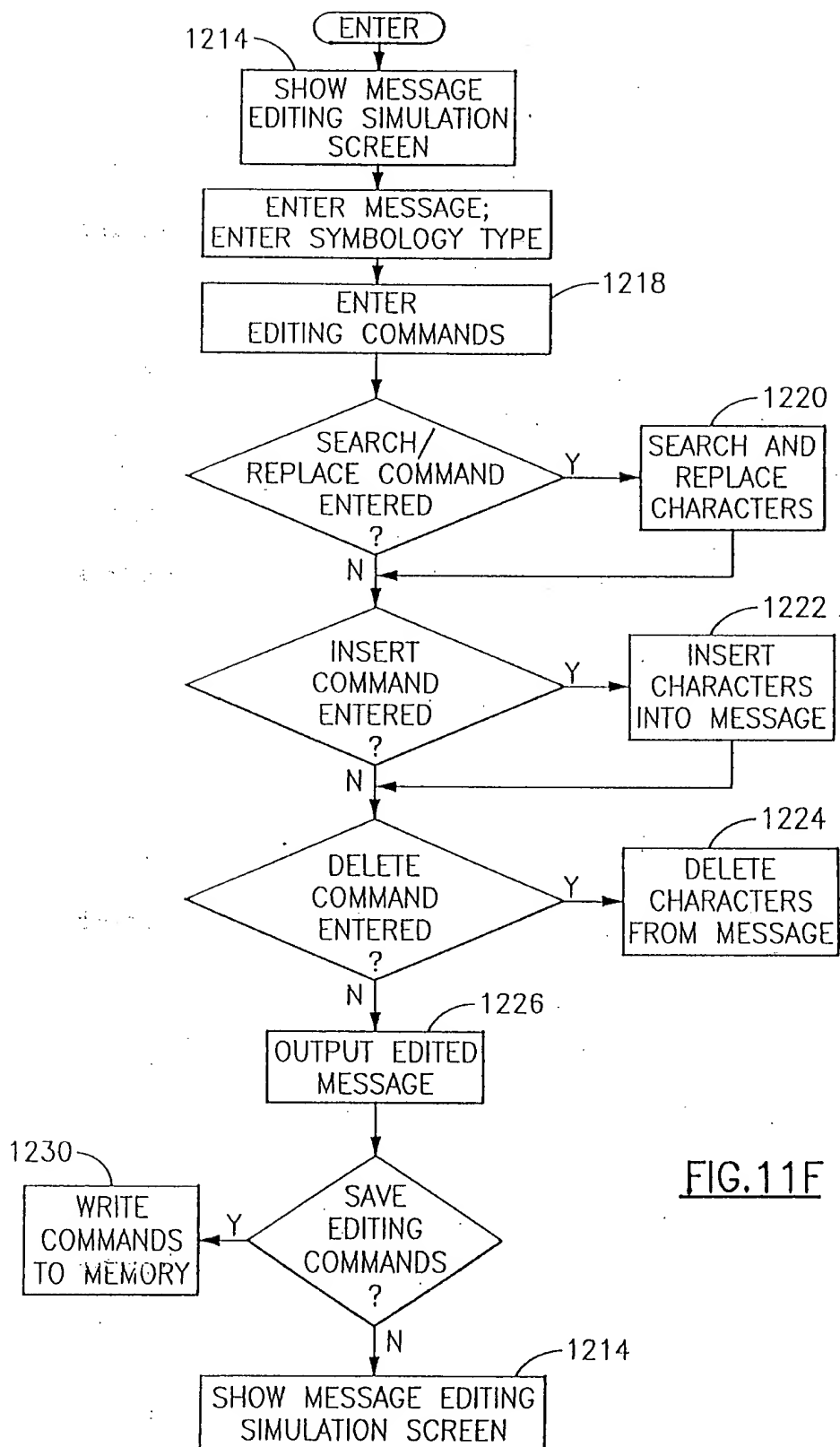
[illegible]

FIG. 11F

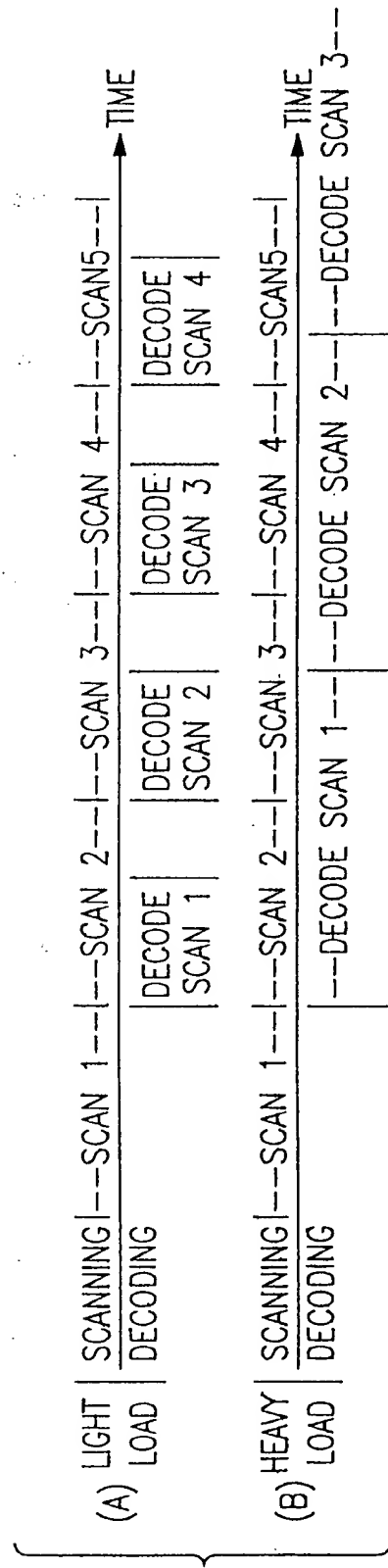


FIG.12

Prior Art



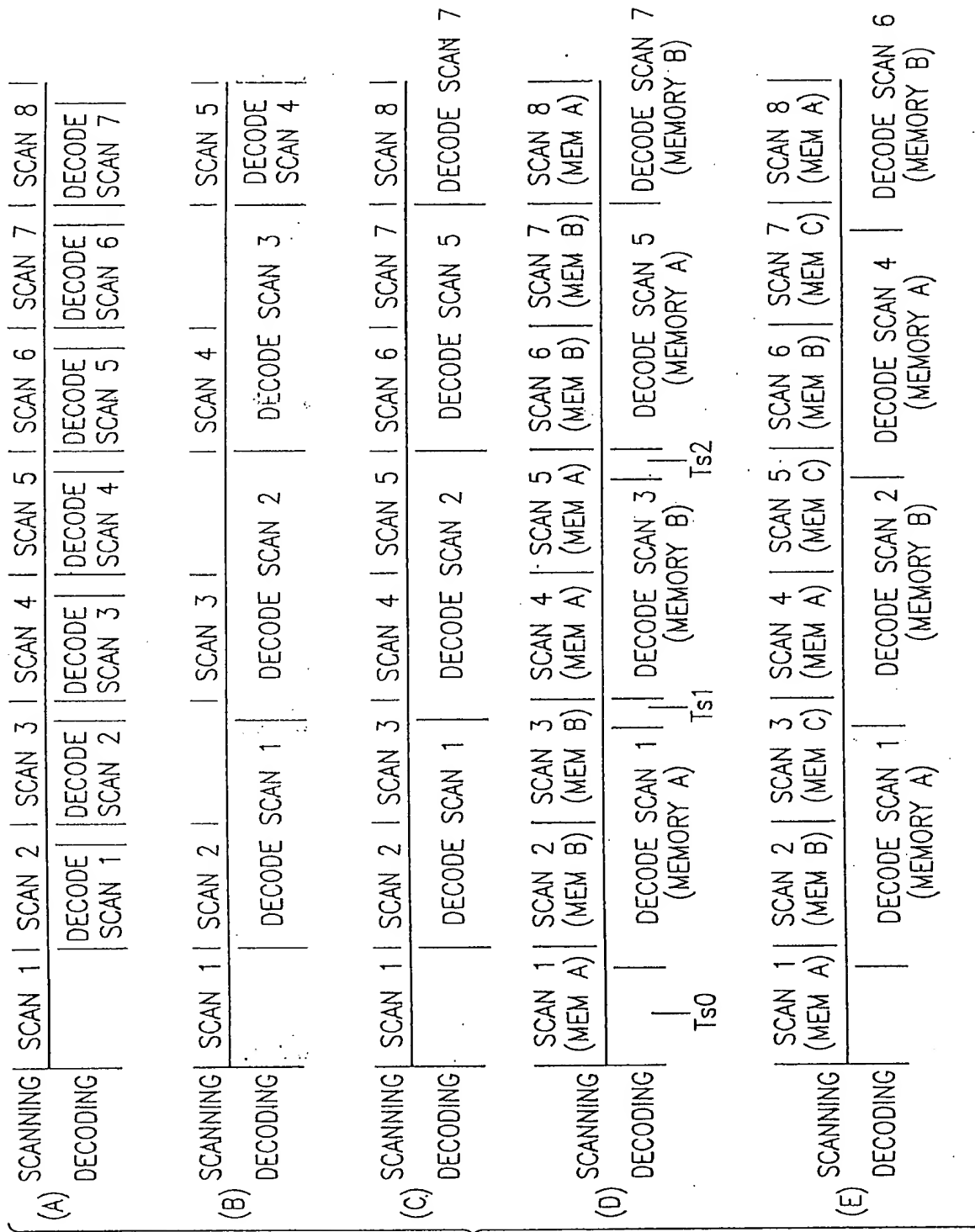
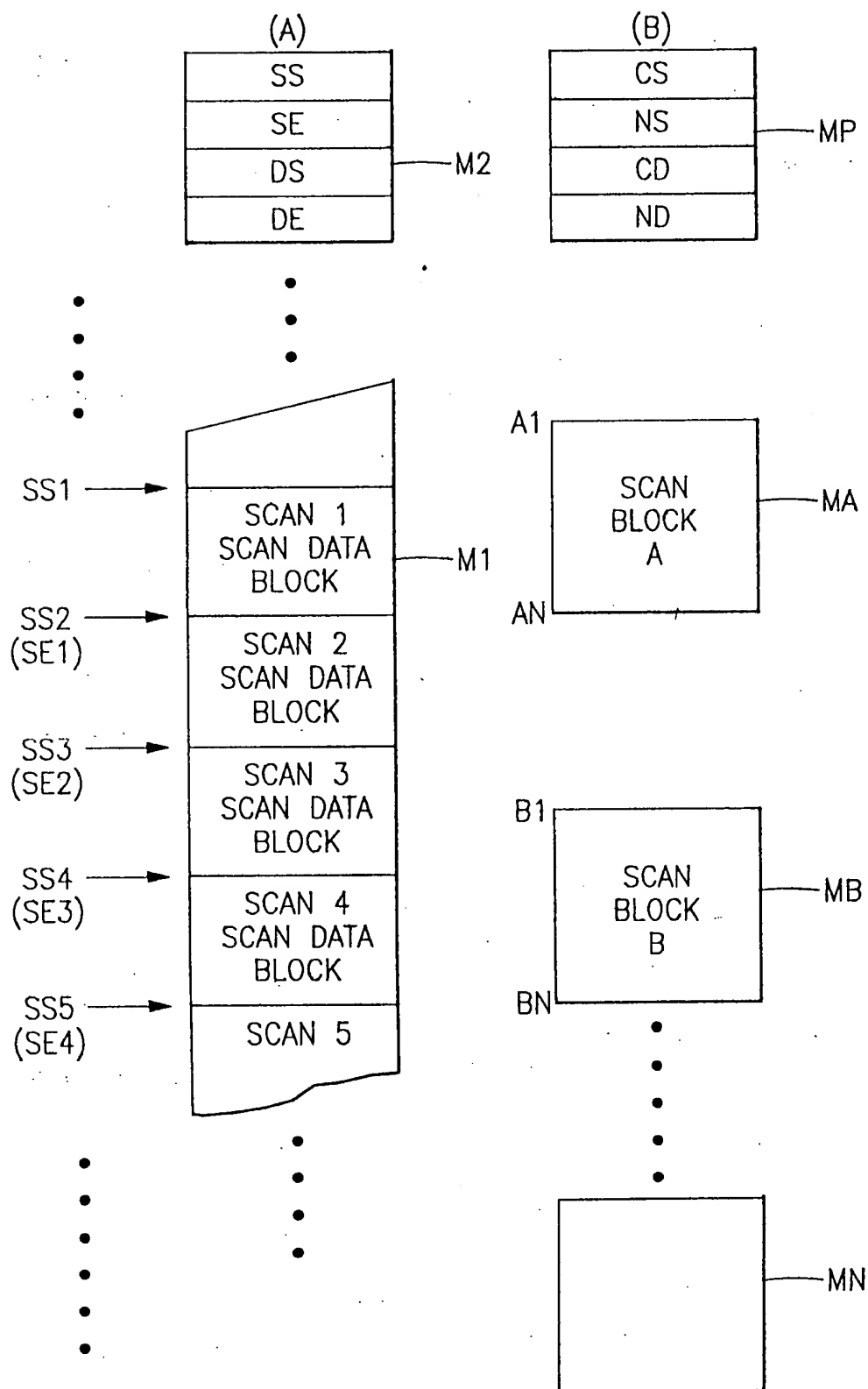


FIG.13

FIG. 14



```

graph TD
    ENTER([ENTER]) --> CAPTURE[CAPTURE IMAGE]
    CAPTURE --> MULT{MULT. SYMBOL ?}
    MULT -- NO --> CAPTURE
    MULT -- YES --> CAPTURE
    CAPTURE --> DECODE[ATTEMPT DECODE]
    DECODE --> SUCCESSFUL{DECODE SUCCESSFUL ?}
    SUCCESSFUL -- YES --> OUTPUT[OUTPUT DATA]
    SUCCESSFUL -- NO --> TRIG{TRIG. STILL PULLED ?}
    TRIG -- YES --> REPEAT{REPEAT PER CURRENT MODE ?}
    TRIG -- NO --> STOP([STOP])
    REPEAT -- YES --> TRIG
    REPEAT -- NO --> STOP
    OUTPUT --> RUD{RUD ?}
    RUD -- YES --> TRIG
    RUD -- NO --> SUCCESSFUL

```

FIG.15

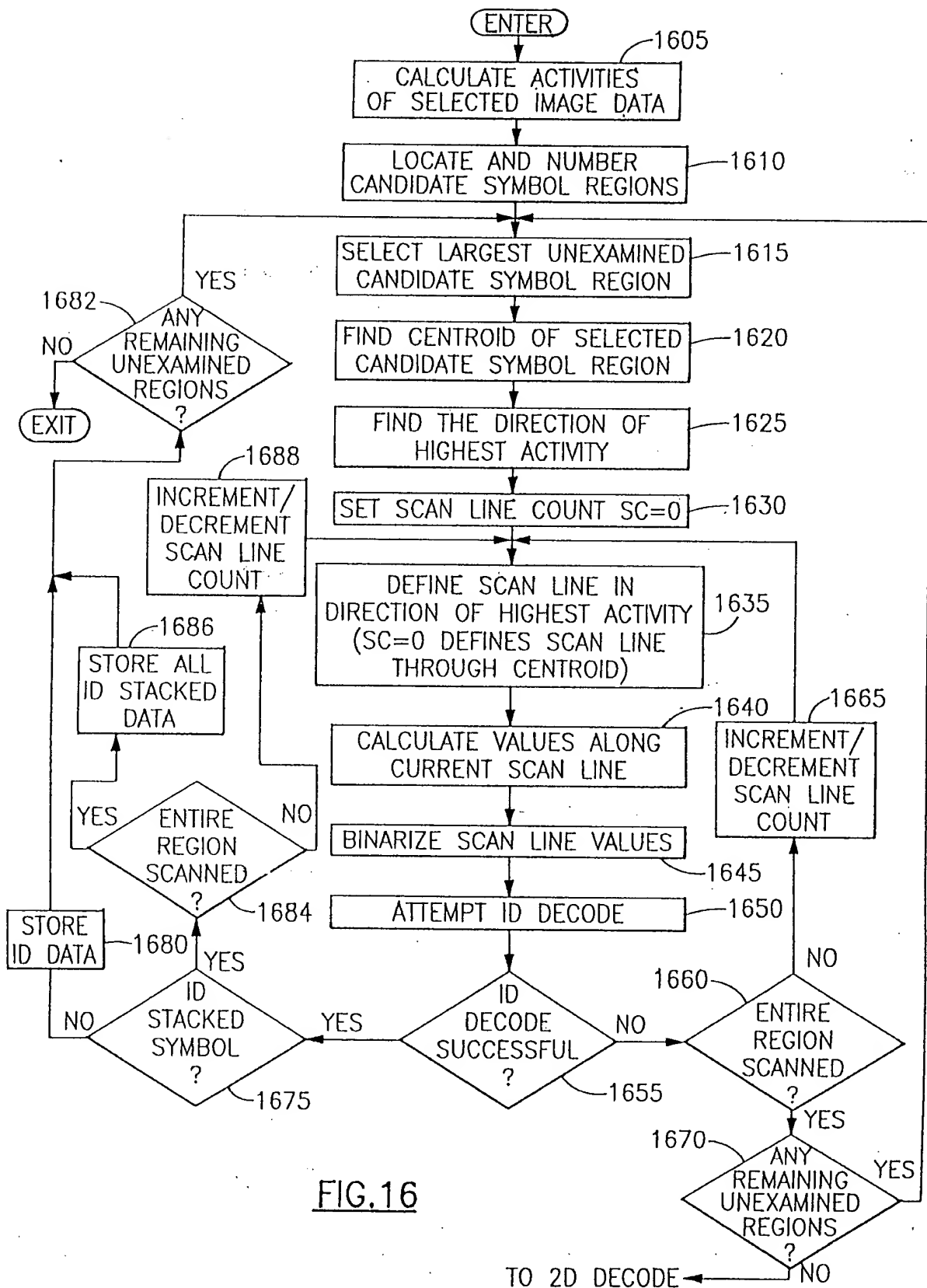
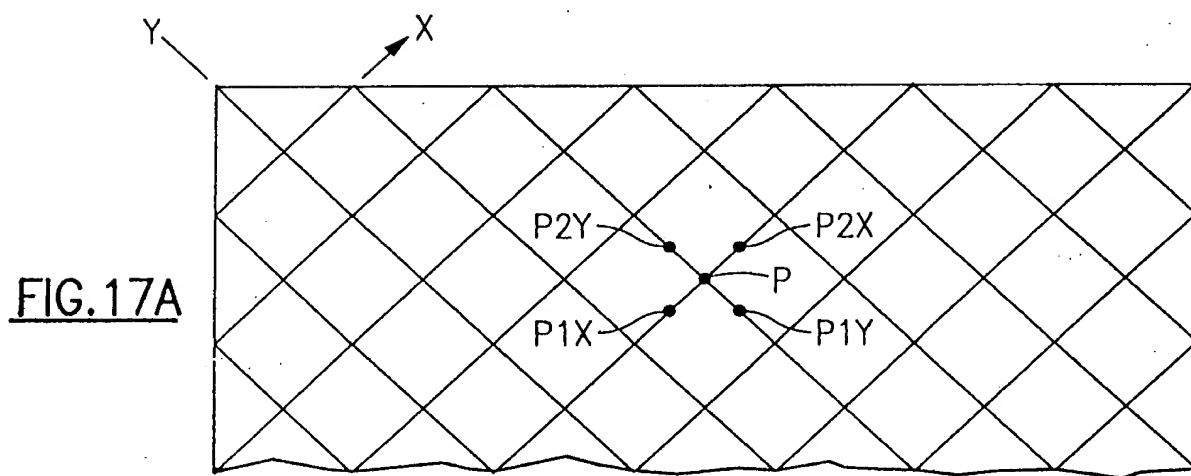
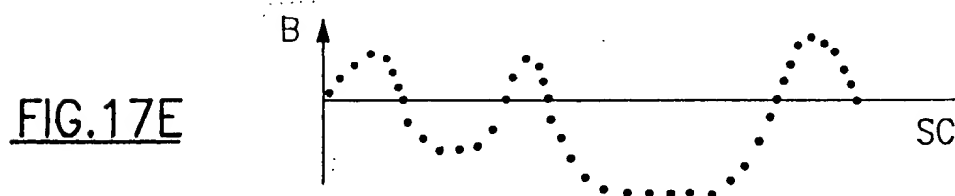
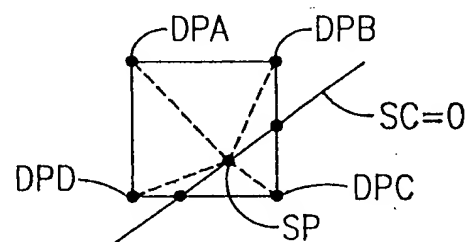
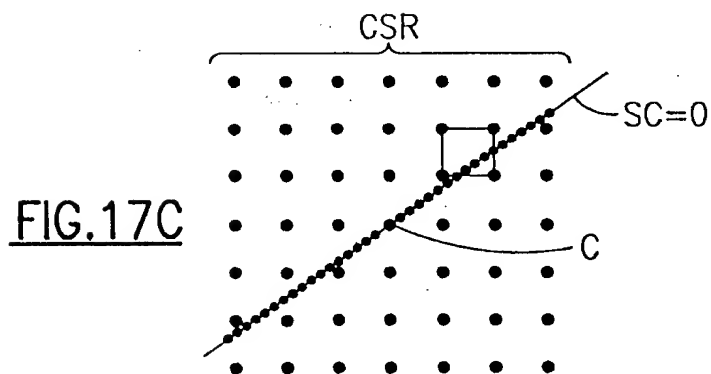
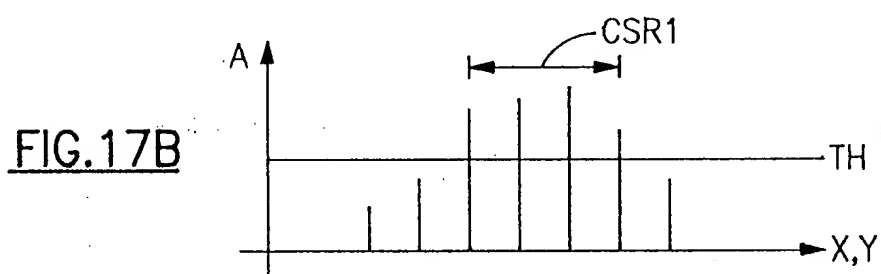


FIG.16



$$A_p = (P2X - P1X)^2 + (P2Y - P1Y)^2$$



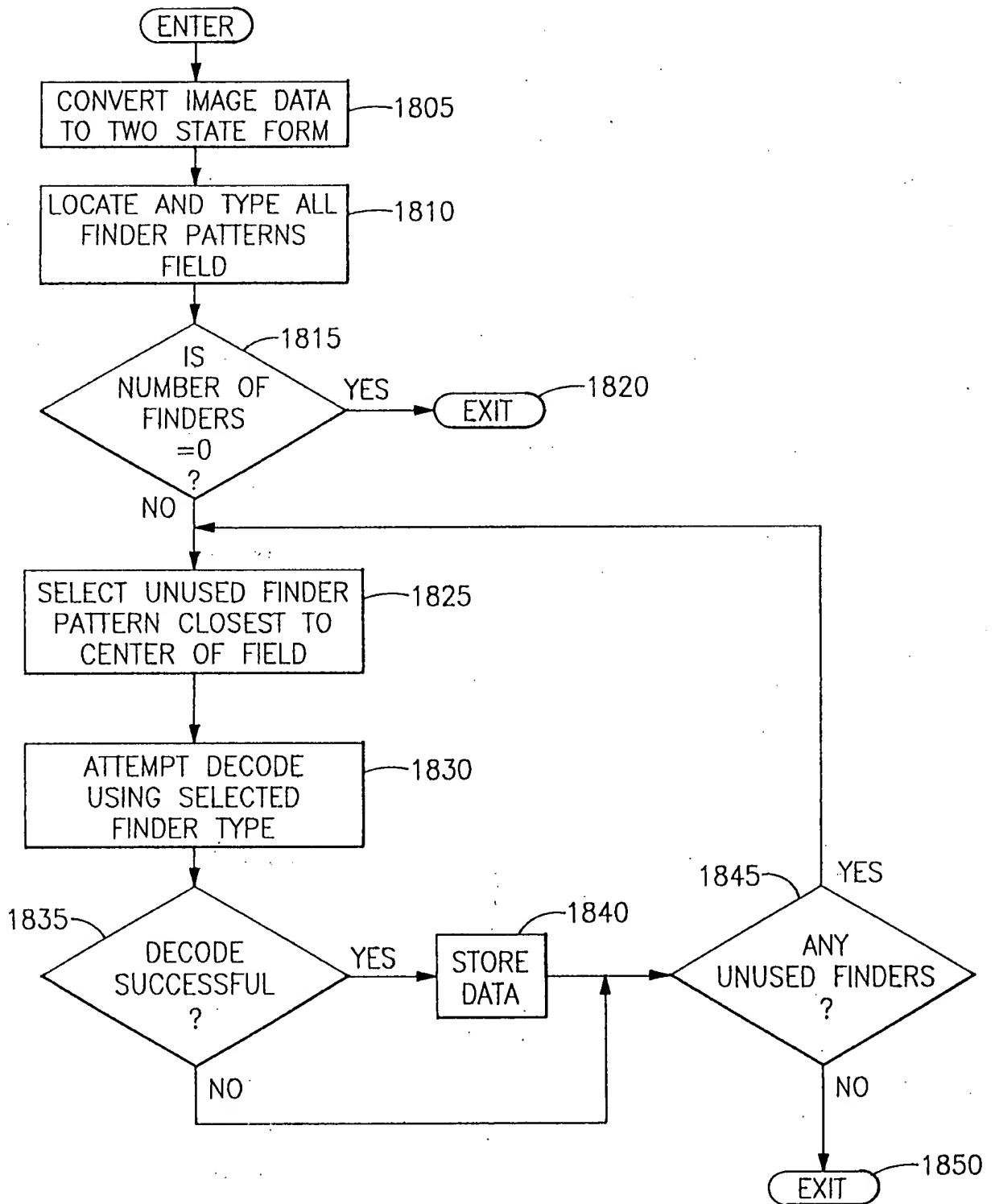


FIG.18

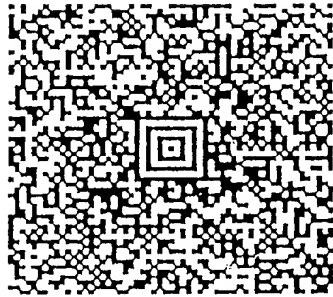


FIG. 19A

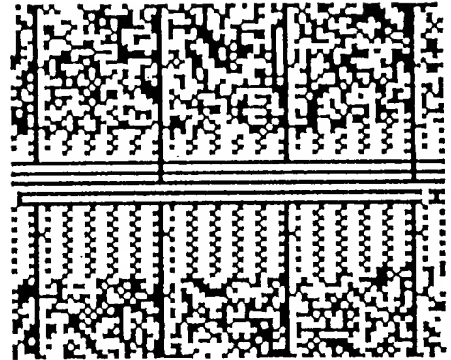


FIG. 19B

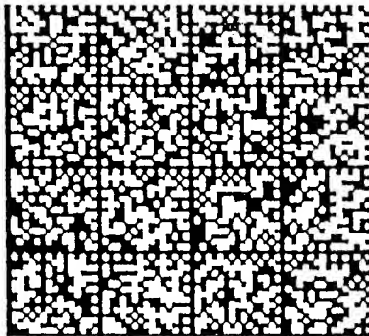


FIG. 19C

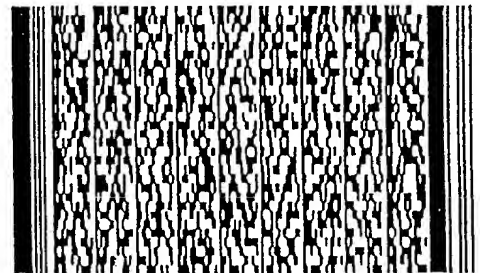


FIG. 19D

```

graph TD
    ENTER([ENTER]) -- "FROM 627 (FIG.6)" --> 2005{2005 ALL ID CODES DISABLED ?}
    2005 -- YES --> 2030{2030 ALL 2D CODES DISABLED ?}
    2005 -- NO --> 2010[2010 PERFORM ID AUTODISC. USING ENABLED ID CODE OPTIONS AND ENABLED SCANNING-DECODING OPTIONS]
    2010 --> 2015{2015 DECODING SUCCESSFUL ?}
    2015 -- YES --> 2020[2020 OUTPUT/STORE DATA]
    2020 --> EXIT1([EXIT])
    2015 -- NO --> 2030
    2030 -- YES --> EXIT2([EXIT])
    2030 -- NO --> 2035[2035 PERFORM 2D AUTODISC. USING ENABLED 2D CODE OPTIONS AND ENABLED SCANNING-DECODING OPTIONS]
    2035 --> 2040{2040 DECODING SUCCESSFUL ?}
    2040 -- YES --> 2045[2045 OUTPUT/STORE DATA]
    2045 --> EXIT3([EXIT])
    2040 -- NO --> 630[TO 630]

```

FIG.20